

MCF 3M Opener

Simplify

i) $\frac{3^2 \cdot (2^3)^2}{3(2)^3}$

ii) $3^3 \div 3^{-2}$

iii) $9^{\frac{1}{2}}$

$16^{\frac{3}{4}}$

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MCF 3M Opener

Simplify

i) $\frac{3^2 \cdot (2^3)^2}{3(2)^3}$

ii) $3^3 \div 3^{-2}$

$\frac{3^2 \cdot 2^6}{3 \cdot 2^3}$
 $= 3^1 \cdot 2^4$

$3^{3 - -2}$
 3^5

iii) $9^{\frac{1}{2}}$
 $\sqrt[2]{9}$
 3
 8^{-2}
 $\frac{1}{64}$

$(\sqrt[4]{16})^3$
 2^3
 8
 $3^{\frac{3}{4}}$
 $3^{\frac{5}{10}}$
 $3^{\frac{1}{2}}$
 $\sqrt[2]{3}$

$\sqrt[2]{32}$
 $(2)^2$
 4

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Work Sheet Transformations

$D = \{x \in \mathbb{R}\}$
 $R = \{y \in \mathbb{R} \mid y > 0\}$

$y = 2^x$
 $f(x) = 2^x$

Key Points to graphing

exponential growth
 $b/c + b > 1$

horizontal asymptote
 $y = 0$
 $y\text{-int} = +1$

$y = 2^x$
 $x \mid y$
 $2 \mid 2$

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Work Sheet Transformations

$f(x) = a(b)^{x-c} + d$
 $y = (1/2)^x$

Key Points to graphing

$b =$

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Work Sheet Transformations

$f(x) = a(b)^{x-c} + d$
 $y = 3^x$

Key Points to graphing

$b = 3$

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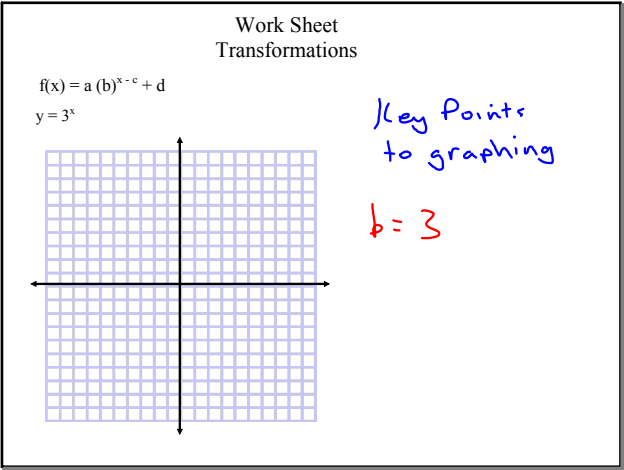
Work Sheet Transformations

$f(x) = a(b)^{x-c} + d$
 $y = (1/2)^x$

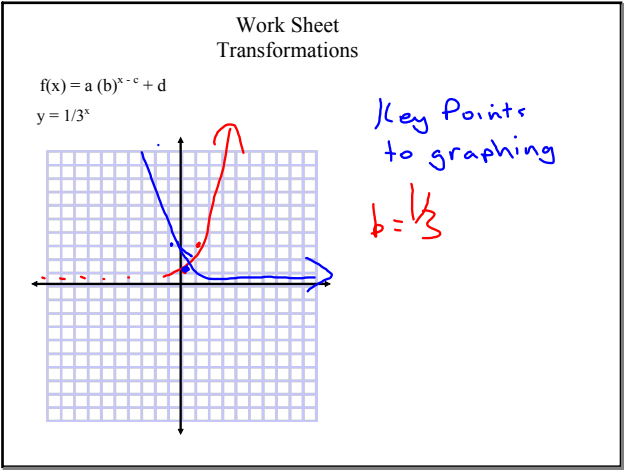
Key Points to graphing

$b = \frac{1}{2} (0.5)$

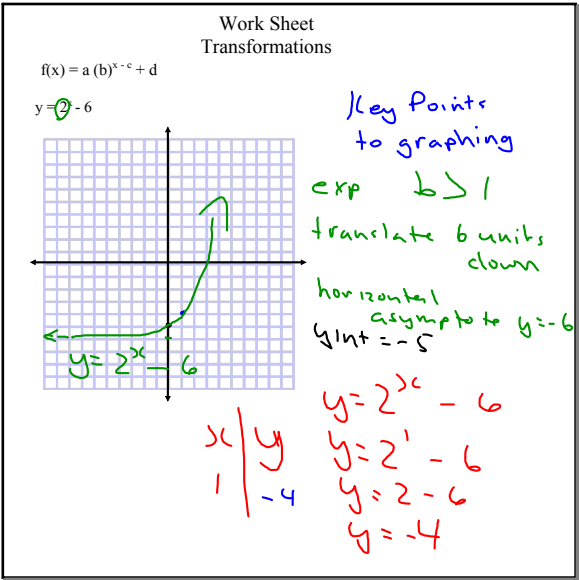
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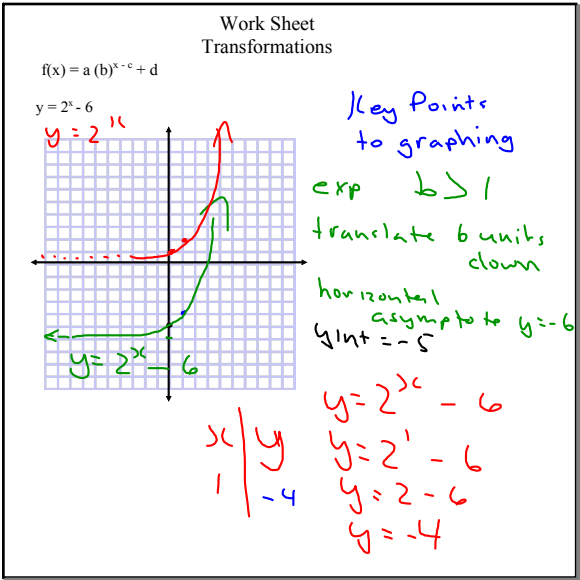
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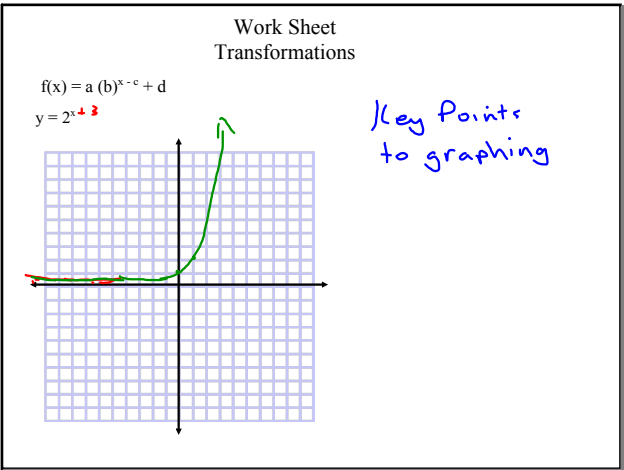
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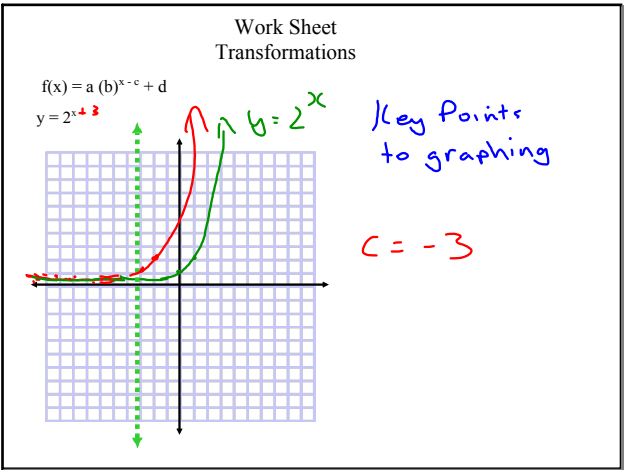
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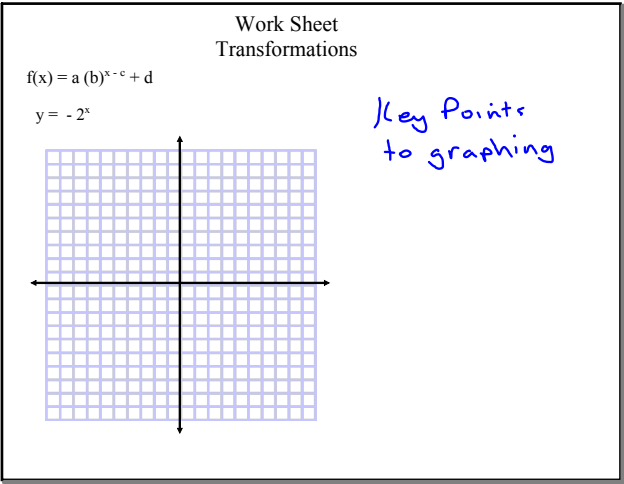
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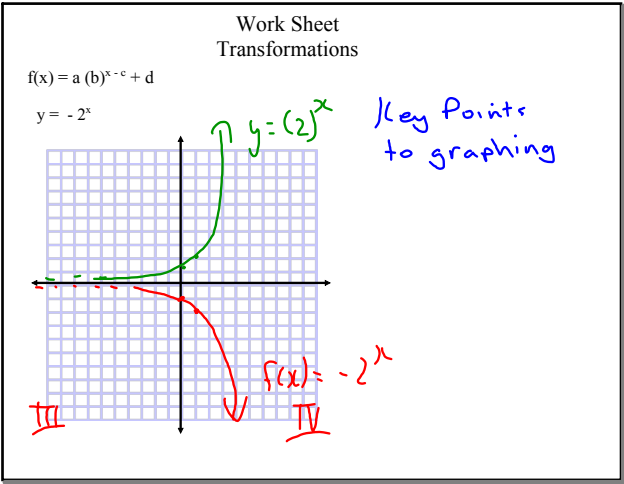
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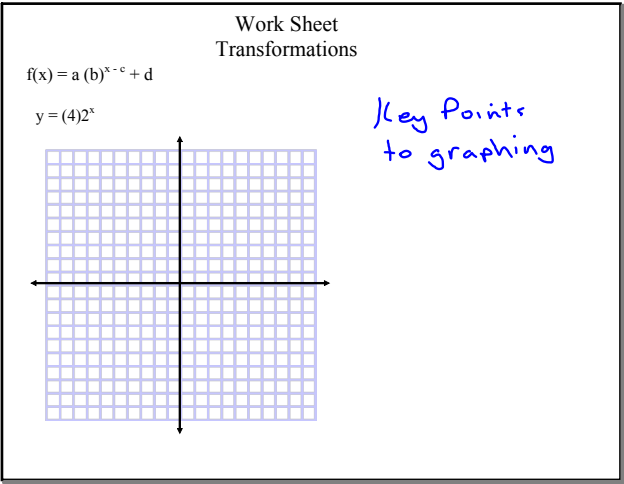
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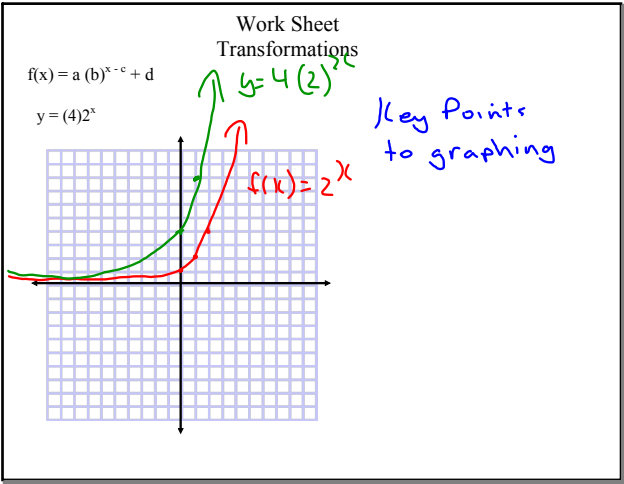
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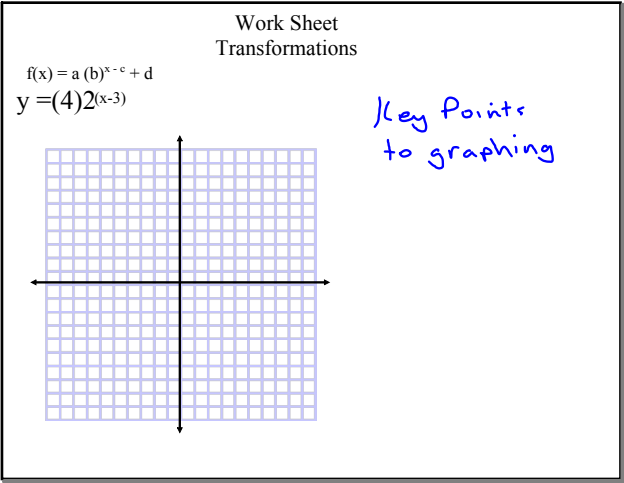
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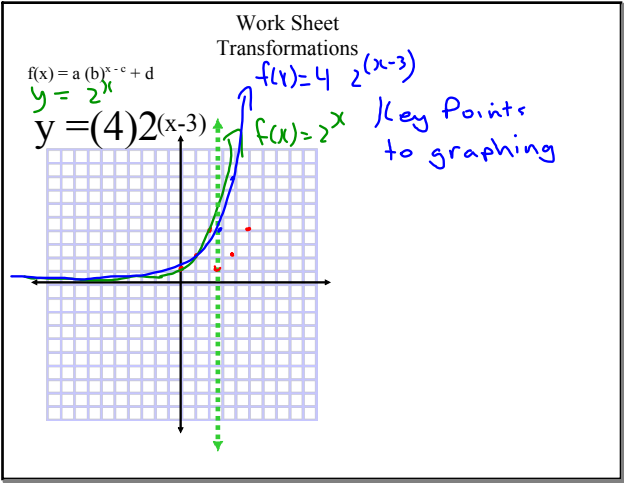
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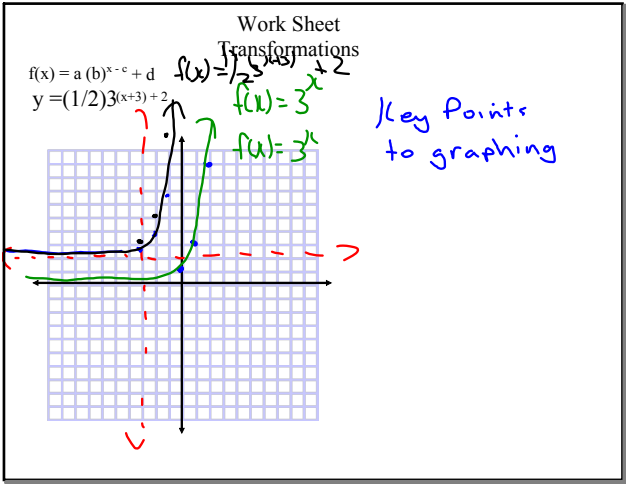
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